

2007 Herculaneum Recontamination Sampling Data Results

Samples were collected by Doe Run with EPA oversight. Sampling spoons were marked with 1-inch depth and sample aliquots were collected by scooping nearly down to the 1-inch mark on the spoons. Analysis was performed by EPA.

All Soil Samples

15 of 284 samples were greater than 1,200 ppm lead. 12 of the 15 samples that exceeded 1,200 ppm were from haul route road easements. 13 of 55 (27%) residential properties that had soils replaced since 2000, have at least one area recontaminated with lead exceeding 1,200 ppm.

Properties outside the MDNR Buyout Zone

44 of 209 samples or 21% of the samples collected from outside the MDNR buyout zone at properties that had yard soil replaced since 2000 had values exceeding 400 ppm lead.

27 of the 39 properties or 69% of the properties located outside the MDNR buyout zone had at least one area of the property exceeding 400 ppm lead.

22% of these properties had gravel drives contaminated with lead exceeding 400 ppm.

Properties within the MDNR Buyout Zone

26 of 79 samples or 33% of the samples collected at properties within the MDNR buyout zone, that had soil replaced since 2000, had surface soil lead contamination exceeding 400 ppm.

13 of 19 or 68 % of the properties sampled within the MDNR buyout zone, that had surface soil replaced since 2000, have at least one area recontaminated with lead exceeding 400 ppm.

Areas Adjacent to Truck Routes

Areas adjacent to truck routes, also referred to as haul route areas, are 5-foot wide sections of front yards adjacent to the haul route streets in Herculaneum. These streets are identified as Main, Station, Joachim, and Brown Streets.

25 of 41 areas or 61% of the areas adjacent to the two concentrate truck routes through Herculaneum are contaminated with lead exceeding 400 ppm. 39 of these areas have had their soil replaced since 2000.

Home Interior Data



17 of 34, or 50% of homes sampled for interior lead dust had at least 1 sample result exceeding the EPA's residential interior lead dust threshold of 40 $\mu\text{g}/\text{ft}^2$ on floors or 250 $\mu\text{g}/\text{ft}^2$ on window sills.